

REPLACEMENT CLAIMS

79. (Third Amended) A capacitor comprising:

a substrate having a trench;

a barrier layer disposed over a surface of said trench;

a first electrode in contact with said barrier layer at a sidewall region;

a dielectric layer in contact with said first electrode and said barrier layer; and

a second electrode in contact with said dielectric layer at a sidewall region,

wherein at least one of said first and second electrodes comprises a uniform, essentially carbon-free oxygen annealed photo-decomposed platinum group metal film.

80. (Third Amended) The capacitor according to claim 79, wherein said uniform, essentially carbon-free oxygen annealed photo-decomposed platinum group metal film comprises PT.

81. (Third Amended) The capacitor according to claim 79, wherein said first electrode comprises said uniform, essentially carbon-free oxygen-annealed photo-decomposed platinum group metal film.

85. (Twice Amended) The capacitor of claim 79, wherein said uniform, essentially carbon-free oxygen annealed photo-decomposed platinum group metal film is oxidation resistant.

86. (Twice Amended) The capacitor according to claim 79, wherein said uniform, essentially carbon-free oxygen annealed photo-decomposed platinum group metal film comprises Rh.

87. (Twice Amended) The capacitor according to claim 79, wherein said

uniform, essentially carbon-free oxygen annealed photo-decomposed platinum group metal film comprises Pd.

88. (Twice Amended) The capacitor according to claim 79, wherein said uniform, essentially carbon-free oxygen annealed photo-decomposed platinum group metal film comprises Os.

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89. (Twice Amended) The capacitor according to claim 79, wherein said uniform, essentially carbon-free oxygen annealed photo-decomposed platinum group metal film comprises Ir.

90. (Twice Amended) The capacitor according to claim 79, wherein said uniform, essentially carbon-free oxygen annealed photo-decomposed platinum group metal film comprises Au.

91. (Twice Amended) The capacitor according to claim 79, wherein said uniform, essentially carbon-free oxygen annealed photo-decomposed platinum group metal film comprises Ag.

92. (Twice Amended) The capacitor according to claim 79, wherein said uniform, essentially carbon-free oxygen annealed photo-decomposed platinum group metal film comprises Ru.
